Quadratics – Review Worksheet

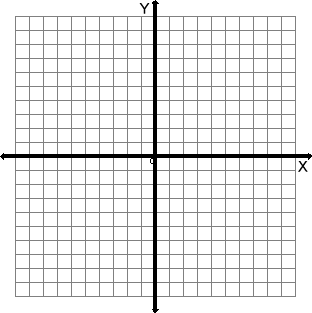
Yes, this counts as a homework assignment.

Solve the following, using any method. Your answer should “x= (answer 1) or (answer 2)”

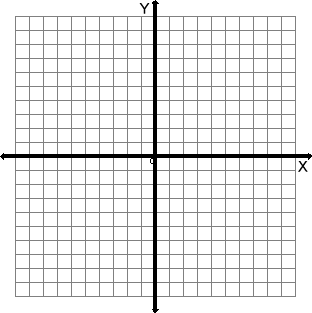
1. x2 - 15x + 44 = 0
2. x2 - 3x + 0 = 0
3. 6x2 - 8x - 8 = 0
4. 4x2 + 27x + 35 = 0
5. 4x2 + 9x - 10 = 0
6. 8x2 + 7x - 8 = 0

Graph the following. Label the vertex and the symmetrical points using ordered pairs.

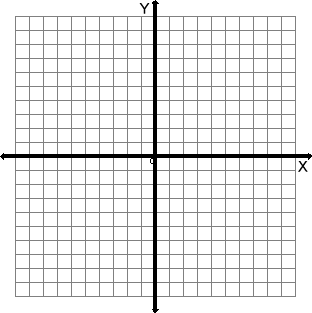
1. y= x2 + 4x – 21



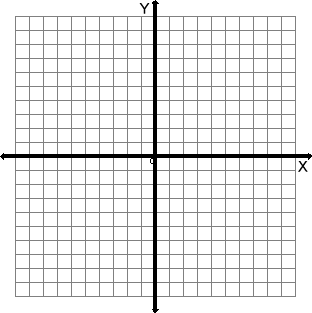
1. y= x2 - x - 12



1. y= 48x2 + 30x + 3



1. y= 10x2 + 19x – 56



Solve the following: An object is launched at 19.6 meters per second (m/s) from a 58.8-meter tall platform. The equation for the object's height *s* at time *t* seconds after launch is *s*(*t*) = –4.9*t*2 + 19.6*t* + 58.8, where *s* is in meters.

1. When does the object strike the ground?
2. When is the object at its highest point?
3. How high is the highest point?
4. Solve the following: A rectangle has a larger length than width. The area of the rectangle is six thousand, three hundred eighty square feet. The perimeter of the rectangle is two hundred forty-six feet more than three times its width. What are its dimensions?
5. The length of a rectangle is one hundred forty-one feet less than two times its width. The area of the rectangle is eight thousand, six hundred ninety square feet. What are the dimensions of the rectangle?